



NATIONAL GEOGRAPHIC

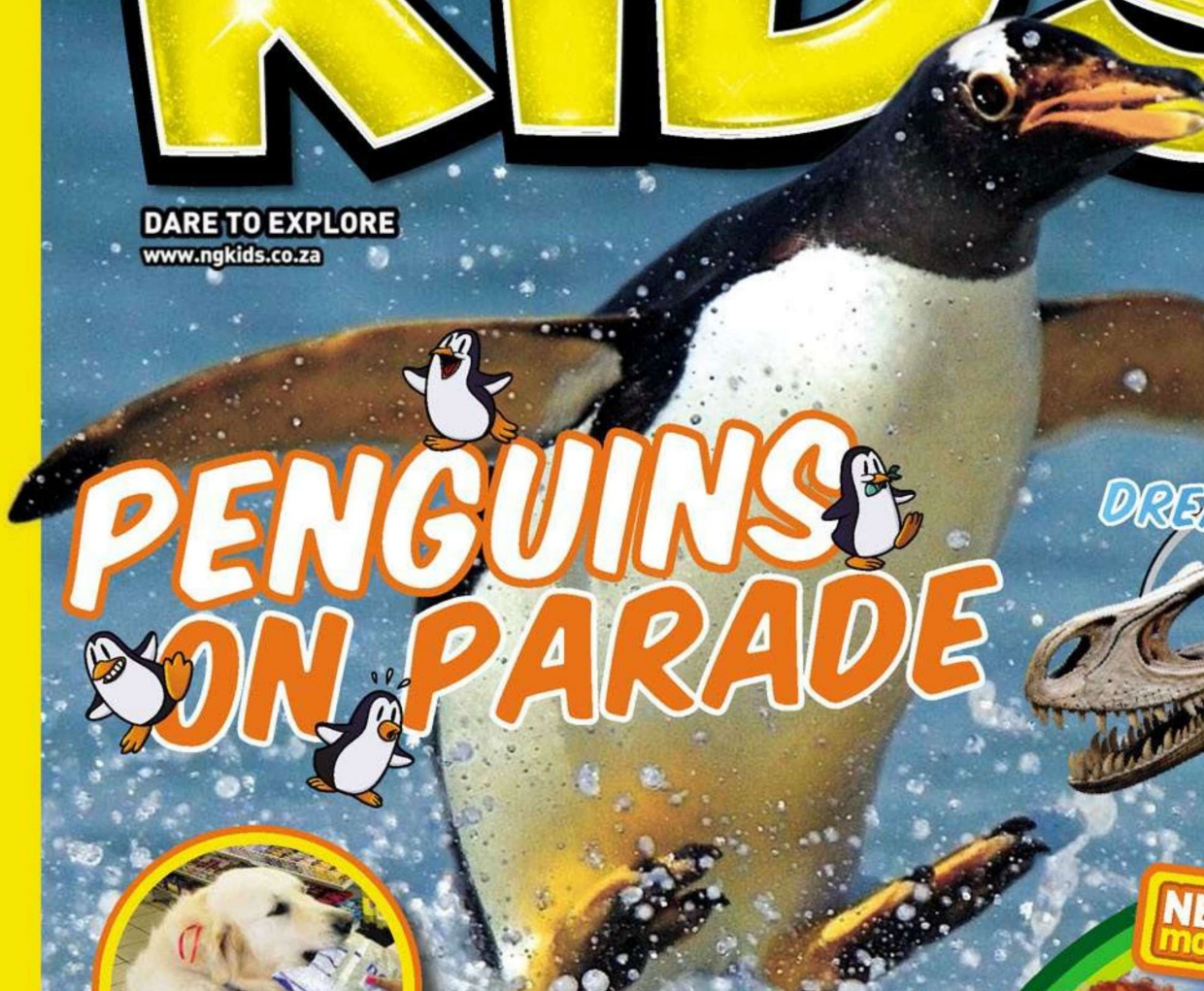
Weird but true



OUTRAGEOUS FUN FACTS!

KIDS

DARE TO EXPLORE
www.ngkids.co.za



PENGUINS ON PARADE

DREAM JOBS

Could you be a Dino Detective?



Dog loves Shopping!



Rhino Killer Caught by Cool Science

NEW movie



BRAVE

NATIONAL GEOGRAPHIC



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Issue 96 August 2012 R27,00 (VAT incl!)

FROM THE MAKERS OF **DESPICABLE ME**



Dr. Seuss'
The LORAX



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HI, KIDS

WRITE TO US!

Send us your letters, birthday dates, pictures and comments. We want to hear from you, so start writing!

- Write to us at: *The Editor, NG KIDS, PO Box 2271, Cape Town 8000.*
- Send us an e-mail to fiona@ngkids.co.za or SMS* us a letter to "NGK Letters" 33970.

* See page 49 for terms and conditions.

FIONA
I WAS A REALLY CURIOUS KID! I WANTED TO BE AN INVENTOR WHEN I GREW UP. I ALSO LOVED ART AND READING.



DELENÉ
I HAD AN OVERACTIVE IMAGINATION AT SCHOOL AND WANTED TO BE A WRITER.



LISEL
ANCIENT ARTIFACTS AND SOLVING MYSTERIES FASCINATED ME WHEN I WAS YOUNG AND I WANTED TO BE AN ARCHAEOLOGIST.



JANI
I GREW UP ON A FARM AND LOVED HORSE-RIDING. MY DREAM JOB WAS TO BE A JOCKEY. IT'S FANTASTIC GALLOPING FAST ON HORSEBACK BUT TO BE A SUCCESSFUL JOCKEY YOU NEED TO BE QUITE SHORT... I BECAME TOO TALL!



EMIL
I WANTED TO BE AN ARTIST. I WAS ALWAYS DOODLING IN CLASS AND THEN GETTING PAINT ALL OVER THE FURNITURE AT HOME.



SHOUNEES
I REALLY LOVED SCHOOL, LEARNING NEW THINGS AND BEING A TEACHER'S PET - SO I WANTED TO BE A TEACHER.



Professional athlete, actor or musician or vet – these were some of the most popular things NG KIDS readers want to be when they grow up. Some of the other jobs that came up in our readers' survey earlier this year: racing driver, wildlife photographer, astronaut, fashion designer, builder and games programmer.

It's very exciting to think of the huge range of possibilities that are open to you. Take inspiration from our interviews with four National Geographic Explorers on page 18 (now that is a dream job!). They told us about some of the really cool things they get up to. Read the tips on what to study, read and watch and you could be an NG Explorer one day.

Our Art Zone artists drew their dream jobs and just for fun we predicted what different species of penguins would become if they were human.

Here is what some of the NG KIDS staff wanted to do when they were ten.

We also say goodbye to Emil, our designer, after this issue. He has been with us for nearly four years. We wish you well, Emil!

Dare to Explore!

Fiona

FIND ME!



African penguins are in trouble! To create awareness, we hid ten of them in the magazine. Here's one, but can you spot all ten?



LETTER OF THE MONTH

DEAR FIONA

IN OUR AREA WE HAVE LOTS OF WONDERFUL WILDLIFE. WE STAY IN JONGENSFONTEIN AND IF I LOOK THROUGH MY WINDOW, I SOMETIMES SEE WILD ANIMALS! ONE DAY I WAS PLAYING WITH MY DOG, JESSIE, AND I HEARD TWIGS CRACKING. WHEN I TURNED AROUND, I SAW THE MOST BEAUTIFUL BABY DEER. HE HAD BIG BROWN EYES AND CUTE GREY EARS. I STILL SEE MY NEW FRIEND IN THE EMPTY YARD NEXT TO OUR HOUSE. NOW THIS IS WHAT I CALL A WONDERFUL PLANET!

THANKS FOR THE LOVELY MAGAZINE, I HAVE LEARNED SO MUCH.

DORETTE BESTER, 12, JONGENSFONTEIN

SUBSCRIBERS OF THE MONTH

The August subscribers of the month are Matthew Loans (11) from Capri, Caleb Heyne (8) from Parklands and Robin Edson (13) from Bellville. They have each won a year's membership of the Cape Town Science Centre valued at R230.

The Cape Town Science Centre, previously the MTN Sciencentre, is now situated on Main Road in Observatory. With a wide variety of interactive displays and exciting activities it's a world of discovery under one roof! Keep an eye on the website for holiday programmes and other events.

Visit www.ctsc.org.za for more information.



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Meet the Penguins

Discover some amazing facts about all 17 species of penguins.

page 12



Dare to Explore

Four National Geographic adventurers share their most thrilling moments.

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Horse Rescue

A starving horse finds a new, safe home.

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Animal Killers Busted

Wildlife detectives use cool science to solve crimes against critters.

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Brave

NG KIDS goes behind the scenes of the new movie.

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On the Cover

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MAKE ROOM FOR NATURE

Teach your kids about the natural world with NG KIDS Magazine



{inside}

BY FIONA THOMSON

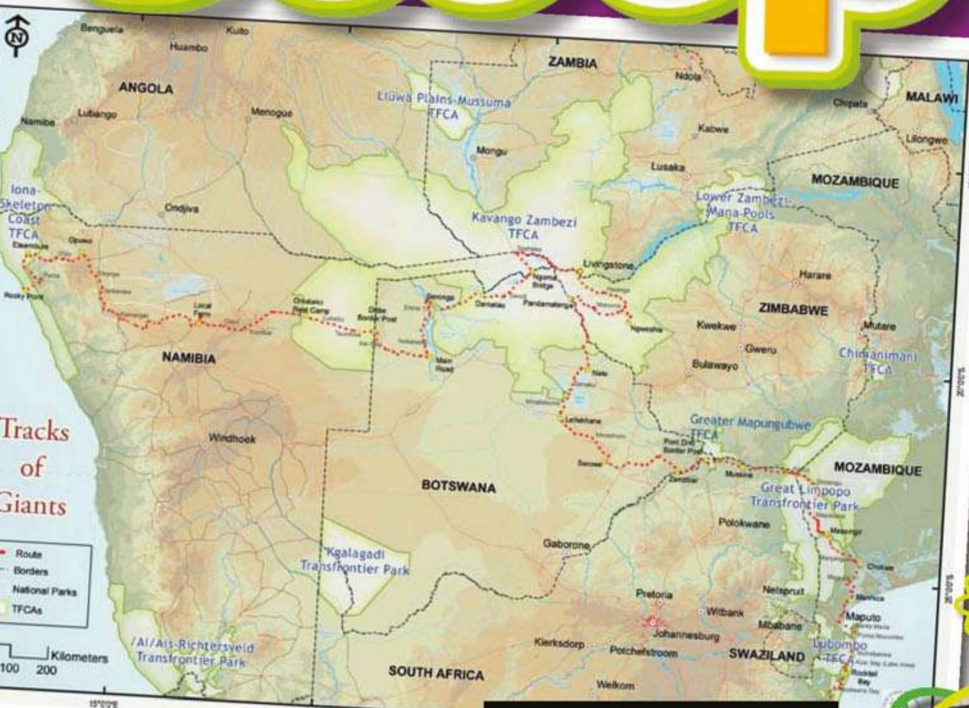
SCOOP

On this Day in History

A robotic spacecraft called Lunar Orbiter 1 was sent into orbit on 10 August 1966. It took the first ever photographs of Earth from space.



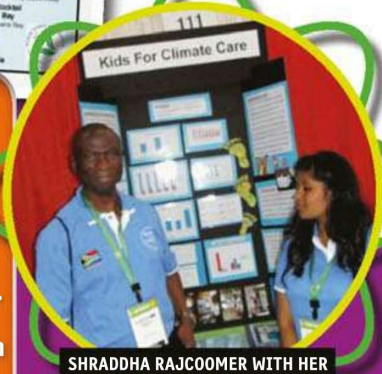
AN ARTIST'S IMPRESSION OF THE LUNAR ORBITER



YOU CAN TRACK THE TEAM'S PROGRESS ON A LIVE INTERACTIVE VERSION OF THIS MAP.

Science Week

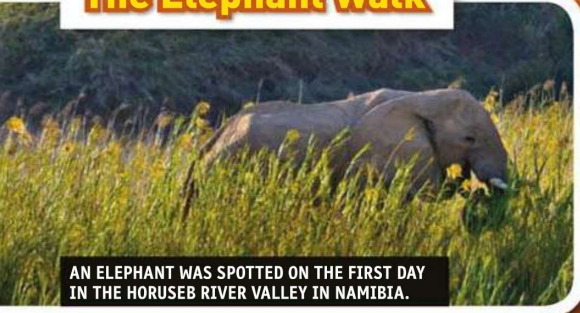
Three South African kids were picked to represent South Africa at the International Sustainable World Energy Engineering Environment Project Olympiad (I-SWEEP) in Texas, America, in May. Kelly Ann Long (grade 10, Diocesan School for Girls, Grahamstown), Kobus Strydom (grade 12, McLachlan High School, Joubertina) and Shraddha Rajcoomar (grade 12, Verulam Secondary School, KwaZulu-Natal) each won a bronze medal and a cash prize for their projects to improve our environment. Their journey started when they entered the Eskom Expo for Young Scientists with their projects and each won a gold medal. Regional expos for primary and high school kids will take place around South Africa in August. Find out more at www.exposcience.co.za.



SHRADDHA RAJCOOMER WITH HER PROJECT ON CLIMATE CHANGE.

It's National Science Week from Monday 30 July to Saturday 4 August. See www.saasta.ac.za for a list of events.

The Elephant Walk



AN ELEPHANT WAS SPOTTED ON THE FIRST DAY IN THE HORUSEB RIVER VALLEY IN NAMIBIA.

The conservationists Ian McCallum and Ian Michler are on a mission to cross southern Africa without any mechanical transport. They are walking, cycling and paddling in traditional kayaks. The expedition is called Tracks of Giants. The name was inspired by the migratory routes elephants could take before human settlements and fences blocked their paths. Cycling through the harsh Namib Desert, the team came across lots of wildlife. Ian Michler says highlights of the first leg included "a close-up sighting of an elephant, plenty of oryx and springbok and the occasional jackal and ostrich."

The journey highlights conservation issues, like clashes between humans and animals. It also shows that there must be corridors for both wildlife and the nomadic Himba people. "Our most demanding challenge is recording these disputes, challenges and successes as accurately as possible," he says. The journey of 5 000 kilometres will take more than four months and will end on 5 September 2012.

National Geographic is recording parts of the trip and you can track the expedition by going to the website www.tracksofgiants.org.

5 Facts about the Games

The Olympics may be over but the Games go on. The Paralympic Games, for athletes with a physical disability, run from 29 August to 9 September 2012.

- 1 The first Paralympic Games were held in Italy in 1960 with 400 athletes.
- 2 South Africa won 30 medals, including 21 gold, at the 2008 Paralympics in Beijing.
- 3 In 2008 Natalie du Toit competed in both the Olympic and Paralympic swimming events.
- 4 Two million tickets will be sold for the Paralympic event in London.
- 5 The Paralympic Games has its own torch relay from 24 to 29 August 2012.

9

National
Women's Day

For your Diary in August

13 International
Left-hander's
Day**Poetry Win**

Cape Town teenager Grace Brain (15) has received a laptop as national winner of the U.S. Black History Month poetry contest sponsored by the American Diplomatic Mission to South Africa. With her poem "Tata" she beat hundreds of others who all wrote about heroes. She tells of a time when she met her hero Nelson Mandela, "When I was small, I met you for the first time and (by small I mean three) I cried... When I was older, I understood why you were so important and wished I could remember you more clearly."



GRACE BRAIN

Did You Know?

There is a college in America that offers a scholarship of R9 000 to a left-handed student. It was set up by two people who were dropped from a tennis team because they were left-handed!

Yellow Slime

Scientists poking around in the rainforests of Panama in South America discovered a new species of frog. Andreas Hertz and his colleagues are reptile and amphibian specialists from Germany. They heard an unusual frog whistle and hoped they were on to something new. "When we finally caught the first specimens, we noticed our fingers were stained yellow after holding them," says Andreas.

There are more than 5 000 species of frogs and most live in tropical rainforests. To make sure they had found a new species the scientists compared the body structure, colour and DNA of their yellow frog to other closely related ones. One of the first things they checked was whether the yellow stain might be harmful! Thankfully nothing poisonous was found in the dye, but none of the researchers wanted to lick their fingers.



THE SCIENTIFIC NAME
(DIASPORUS CITRINOBAPHEUS)
OF THIS NEW FROG MEANS
"YELLOW DYER RAINFROG."

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(LUNAR ORBITER 1); ESKOM EXPO (LEARNERS); ILLUSTRATIONS (STOCKPHOTO)

WIN TICKETS TO BRAVE 3D

The makers of **Toy Story** and **Finding Nemo** bring you an exciting **new movie** set in the Highlands of Scotland. In the movie **Brave**, Merida doesn't listen to her **parents** and causes a lot of **trouble!** She needs to learn the **meaning** of true **bravery**.



©Disney/Pixar

Go behind the scenes for more **facts** about **Brave** on **page 36**. You can also **win** tickets to see the movie on **page 35**.

Brave opens
in cinemas on
3 August 2012.

TRAVEL IN STYLE WITH SAMSONITE

Samsonite's Sammies collection is ideal for the **trendiest** of little **travellers**. The Sammies family started out with the **Ladybird**, **Grocodile** and **Busy Bee** and now includes the **Butterfly**, **Elephant** and the cute **Chick**. Choose from backpacks, a gym bag, school bag, pencil box, an upright suitcase and more. The **Sammies** by **Samsonite** range is available at luggage stores nationwide.



Visit www.samsonite.com or contact 031-266-0620.

LEARN WITH DINO POO

It's not real poop... but it sure does smell like it! Discover what the **dinosaur** ate and create your own **fossil imprint** with what you **find**. Find out which **dinosaur** was a **hunter** and which was a **plant eater**. Be careful ... it really smells **terrible!**



This new product by **ThinkToys** stimulates creativity and helps with early child development. It's **animal friendly** and for ages **five and older**. Visit

www.thinktoys.co.za or
phone 011-615-6594
for more information.

Amazing Animals

TEN BAGS OF DOG TREATS, PLEASE!



REMARKABLE RETRIEVER



Cape Town, South Africa

Four-year-old golden retriever Zoei is one supersmart canine. If you show her one, two, three or four fingers she'll bark the correct number. If you lose your keys, just tell Zoei "find my keys" and off she'll go to search, usually find and return them. Frits Buter, her owner, has even taught her to fetch the South African flag and give it to someone she's only met a few minutes before. "She'll run straight past everyone else and hand it to the stranger," says Frits.

Here's the part your mum will love: if you've left a mess of toys on the floor, ask Zoei to tidy up and she'll clear the chaos! She's also known to put the rubbish in the bin after a cleaning session.

Zoei is a keen shopper and Frits' local supermarket manager says she's one of their best customers. She goes to the store with a basket, fetches what she needs from the shelves, puts it in the basket and pads off to the check-out. She jumps up and puts the shopping on the counter. Then she gets her owner's wallet and hands it over to pay!

Wonder if she's allowed to buy doggie treats with the change?

—Julika Kennaway

I'LL RUN TO THE MOON FOR A STEAK!

STRAY DOG RUNS TO TIBET

Lhasa, Asia

How do you get a dog to run more than 1 500 kilometres? Give it a bone. When a team of Chinese cyclists spotted a small stray five days into an expedition from Chengdu, China, they gave her a drumstick. They didn't expect what would happen next. The smart pup decided to follow the team for 20 days and over 12 mountains, all the way to Lhasa in Tibet! The dogged little pup, nicknamed Xiao Sa, or Little Sa, kept up with them through heavy storms and thin air. She stayed on foot even in parts where the cyclists took a bus to have a rest. The pooch covered around 60 kilometres a day and slept on the cyclists' raincoats at night after sharing their rations of custard tarts, boiled eggs and sausages for supper. "At first she just followed us for food but she really bonded with us later on," says Xiao Yong.

The cyclists completed their trip in May and Little Sa's story had a happy ending. She was adopted by Xiao and returned home to China. Here's hoping she gets to eat all the chicken drumsticks her doggy heart desires. — *Jani Coetzee*



DON'T TALK TO ME, TALK TO MY AGENT.

ELEPHANT PLAYS HARMONICA

Washington, America

Elephant keeper Debbie Flinkman noticed that 36-year-old Shanthi, an Asian elephant, likes music. She was always tapping against things and flapping her ears to make noises. The zookeepers decided to attach a harmonica to her stall. The musical mammal started playing it immediately, using her trunk to blow air through the instrument.

She plays for several minutes at a time, exhaling, inhaling and moving around on the harmonica to make different notes—just like a human player would do. Her favourite songs pick up volume towards the end and finish on a loud note. "She often lowers her head to the harmonica so she can hear her song better," says Debbie. We look forward to the gentle giant's first album! — *Jani Coetzee*



Bet you
didn't
know

10

facts
about

The new National Geographic television miniseries *Untamed Americas* features the coolest creatures on the American continents, from the northern point in Canada to the southern tip of Chile. Find out what makes some of these animals so wild!

1

Mustangs can eat
6,8 kilograms of food
a day – equal to about
70 burgers.

2

The tube-lipped nectar bat's
tongue is longer *than its body.*

3

Certain alligators
bellow loud
enough to
shake
nearby objects.

4

Bighorn rams can crash
into each other at 32 kilometres
an hour.

5

A group of Pacific
parakeets
in Nicaragua nests
in an active volcano.

6

Some flamingos
live in the chilly Andes
Mountains.



WILD AMERICA

7



Jaguar jaws are strong enough to crack open tortoise shells.

8

A mobula ray's wingspan can be 3 metres.



9

Northern grasshopper mice howl when defending their territory.



10

Some scientists think spider monkeys eat soil to help them digest.



© LISA DEARING / ALAMY HORSESH; HOPE RYDEN / NATIONAL GEOGRAPHIC STOCK (ALLIGATOR); © DONALD M. JONES / MINDEN PICTURES (RAMS); FRANS LANTING / NATIONAL GEOGRAPHIC STOCK (JAGUAR); TOPHOTOS / DREAMSTIME (RAY); JOEL SARTORE / NATIONAL GEOGRAPHIC STOCK (MOUSE, SPIDER MONKEY)

PENGUIN YEARBOOK CLASS OF 2012

African Penguin

**Most likely to
break a record**

The African penguin can swim up to 20 kilometres per hour when hunting, hold its breath for 2,5 minutes and dive as deep as 130 metres. It's the only penguin that breeds on the coast of Africa. Its enemies are land predators such as leopards, rats, snakes and mongooses.



Check out the 17 penguin species that make up the class of 2012. They're more than just black and white – each has its own personality and unique style. Find out how we think they'll make their mark in the world.

Look:

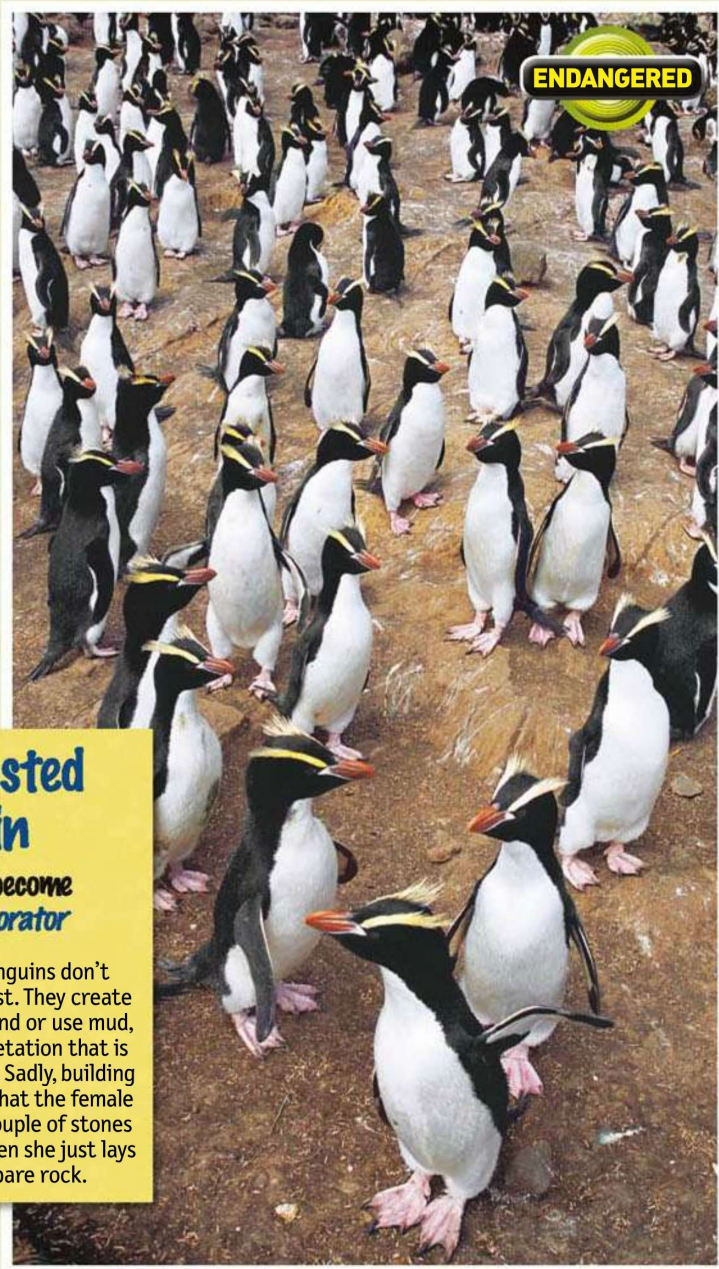
BY RUTH A. MUSGRAVE



Erect-crested Penguin

Most likely to become an interior decorator

These New Zealand penguins don't need much to make a nest. They create shallow holes in the ground or use mud, stones, grass or any vegetation that is available to line the nest. Sadly, building materials are so scarce that the female sometimes uses only a couple of stones as her nest. But more often she just lays her egg on a large, bare rock.



Chinstrap Penguin

Most likely to become a rock star

Noisy, messy, rock-stealing, flipper-slapping chinstraps have a gigantic penguin personality stuffed into a small body. "They're so loud, it's impossible to have a conversation near a rookery," says penguin expert Penny Chilton. Their name comes from the narrow black band under their heads, which makes it appear as if they are wearing black helmets.



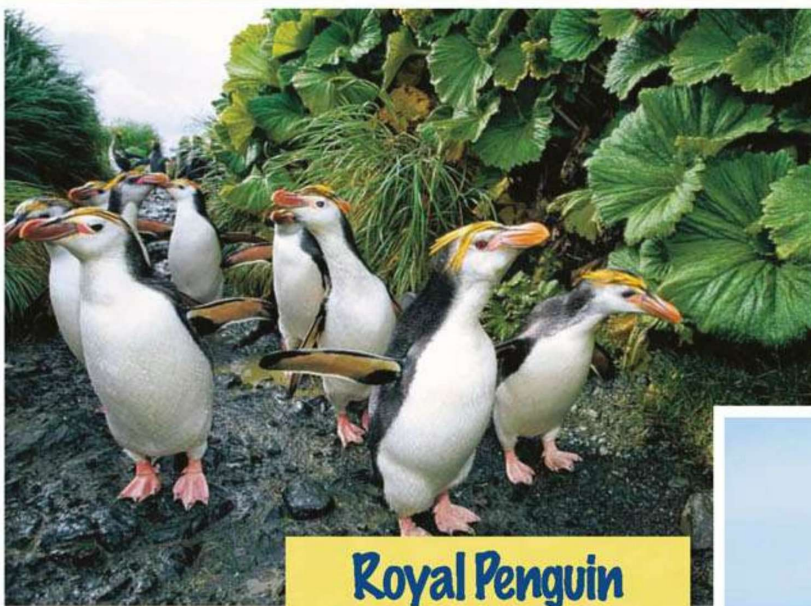
ENDANGERED



Rockhopper

Most likely to
go on *Fear Factor*

Both northern and southern rockhopper penguins are expert climbers. They use their sharp claws to hop and scramble up steep cliffs to nest. "Rockhoppers are fearless," penguin expert Sarah Crofts says. The two species live just north of the Antarctic. Northern rockhoppers are endangered.



Royal Penguin

Most likely to become
a *deep-sea diver*

Royal penguins spend about four months each year eating and sleeping at sea—somewhere between Australia and Antarctica. They capture their prey on dives as deep as 46 metres.

Adélie Penguin

Most likely to
get *arrested*

Male Adélie penguins must build a big stone nest to impress the females. Some have found a sneaky way to build their nests without having to do all of the hard work. They steal from their neighbours! Adélie penguins must win a deadly game of freeze tag while crossing thin ice in Antarctica. Leopard seals lurk below, watching for movement. If an Adélie sees the predator, it "freezes" until the danger passes.

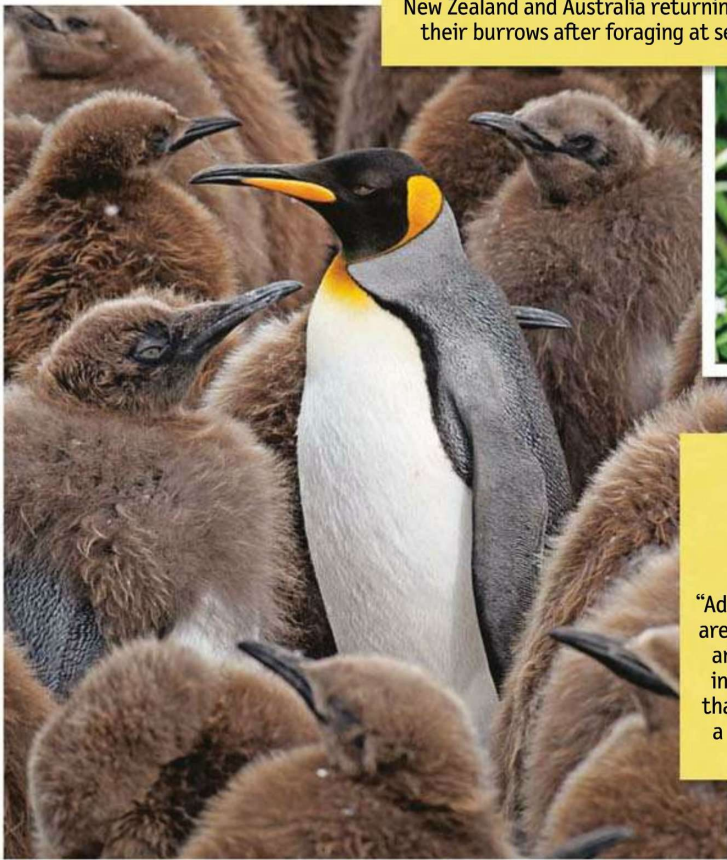
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/ ALAMY (YELLOW-EYED)



Little Penguin

Most likely to become
famous

They are shy birds, but one of the most popular tourist attractions in the world. More than half a million tourists a year watch the nightly parade of these blue-grey, rugby ball-sized penguins from New Zealand and Australia returning to their burrows after foraging at sea.



King Penguin

Most likely to become
the President

“Adult king penguins act as if they really are royalty,” Sarah says. “They never run anywhere, as if they have all the time in the world.” Chicks look so different that scientists once thought they were a separate species, which they called “woolly penguins”.

Snares Penguin

Most likely to become
a tree-hugger

They get their name from where they live – Snares Island. You have to look up to spot these penguins. They perch in trees, sometimes up to two metres off the ground. During breeding season Snares penguins roost on twisted tree limbs in forests on tiny islands south of New Zealand.



Yellow-eyed Penguin

Most likely to become
a landscape gardener

Unlike penguins that nest together in crowded colonies, yellow-eyed penguins hide in coastal forests and shrub land far from any other penguin's nest. “To study them, we have to crawl through thick, scratchy vegetation,” expert David McFarlane says.



Macaroni Penguin

Most likely to become a fashionista

These penguins were named by early English explorers. In the mid 18th century a young man who wore flashy feathers in his hat was called a "Macaroni". The English explorers thought the yellow feathers of this penguin looked like the hat a Macaroni would wear. Every October about 18 million macaroni penguins nest on hillsides and cliffs off the Antarctic and subantarctic shorelines. Macaronis have the largest population of all penguins.



Gentoo Penguin

Most likely to run a food stall

When a gentoo parent returns from hunting in subantarctic seas, it races away from its chicks. But hungry chicks will follow. "It's funny watching the chicks with their floppy flippers chasing the adult," says penguin scientist Alexis Will. Once a chick is full, it won't bother chasing its parent anymore.



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Galápagos Penguin

Most likely to become the coolest penguin on the planet

Instead of fighting frostbite, these penguins battle sunburn. That's because they live on the Galápagos Islands at the Equator. They shade their feet with their flippers to avoid sunburn.

ENDANGERED

Watch a video of emperor penguin parents.
kids.nationalgeographic.com/kids/videos

Emperor Penguin

Most likely to
run a daycare centre

The Emperor penguin is perhaps best known for the journeys adults make each year to mate and to feed their baby. They travel 50 to 120 kilometres over the ice to breeding colonies. The female lays a single egg, which is incubated by the male while the female returns to the sea to feed. Emperor penguins are the largest species—as tall as a seven-year-old child. They can dive 500 metres straight down and hold their breath up to 22 minutes. Their usual lifespan is 20 years in the wild, although scientists believe some of them may live to 50.

Magellanic Penguin

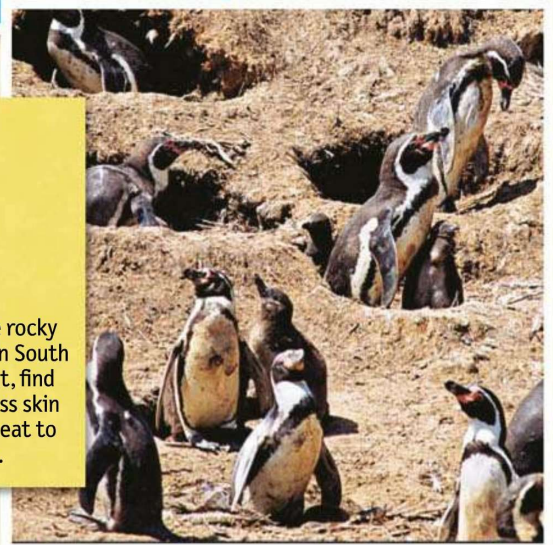
Most likely to
marry their high school sweetheart

Magellanic penguins mate with the same partner year after year. The male reclaims his burrow from the previous year and waits for his female partner. The females can recognise their mates just by their call. Young Magellanic penguins, found along the southern coast of South America, practise hunting by chasing dragonflies. “They also flap their flippers to strengthen their swimming muscles,” says penguin researcher Olivia Kane. “Sometimes they fall over.”

Humboldt Penguin

Most likely to
go bald

Humboldt penguins nest on the rocky desert coasts of Chile and Peru in South America. To keep cool, they pant, find shade or take a swim. Featherless skin on their faces and feet allows heat to escape from their bodies.



Fiordland Penguin

Most likely to become
a zoologist

The rare, 60 centimetre-tall Fiordland penguin lives in rain forests where it nests in caves, under boulders or in the dense undergrowth on islands off New Zealand.



DARE to EX



KRITHI KARANTH IS ALL ABOUT ANIMALS.

THE CONSERVATION BIOLOGIST

Krithi Karanth finds ways to protect wild animals. She talks about a heart-stopping encounter with an elephant.

"I've learned to expect the unexpected. Once while walking down a curving road in an Indian wildlife park, we came face to face with a group of elephants. Not wanting to disturb them, we began to back away.

Most of us knew to stay calm and quiet. But one person in the group who wasn't used to encountering wild animals made some noise. An elephant was startled and looked up. Normally these creatures are gentle giants, but some become defensive when scared. This one started stomping toward us! We got out of there quickly. My job does have some risks, but I love it. Helping to protect animals is important. I can't imagine doing anything else."

WANT TO BE A CONSERVATION BIOLOGIST?

STUDY: Biology, geography and mathematics

WATCH: *The Truth About Tigers* on YouTube

READ: *On Becoming a Biologist* by John Janovy, Jr.

"Find a career you love. The rest will fall into place."

ELEPHANT MUM WITH HER CALF

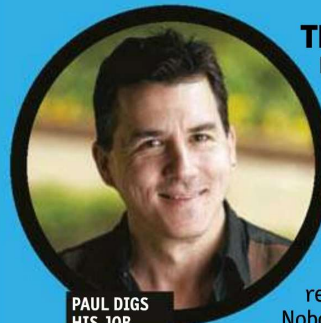


PAUL SERENO IN FRONT OF A CAST OF DELTADROMEUS

WANT TO BE A PALEONTOLOGIST?

STUDY: Science, art
WATCH: *Jurassic Park*
READ: *Dinosaur Death Trap* from the March 2011 issue of *Scientific American* magazine

"Be active, be productive and test your limits."



PAUL DIGS HIS JOB.

THE PALEONTOLOGIST

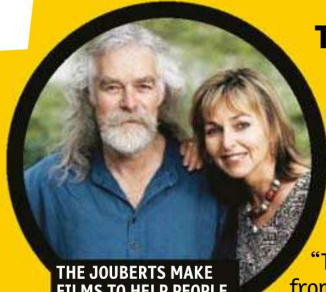
Paul Sereno uncovers dinosaur remains. He remembers discovering a nearly complete skeleton of *Herrerasaurus*, one of the earliest dinosaurs. "The Ischigualasto Valley in Argentina is about 120 kilometres long. We had spent several weeks on this harsh terrain looking for more complete remains of the earliest dinosaurs.

Nobody thought we'd succeed. Just as the team was preparing to leave, I decided to look in one place we'd missed. There I noticed vertebrae in an eroded sandstone ledge. My eyes followed the neck bones one by one, right up to the base of a dinosaur skull. It was truly amazing. I felt as if I had found a 230-million-year-old needle in a monstrous haystack."

Explore

Want to be an adventurer?
Read the stories of four
National Geographic explorers
to see what it takes.

BY C.M. TOMLIN



THE WILDLIFE FILMMAKERS

Dereck and Beverly Joubert are award-winning filmmakers from Botswana. Beverly describes meeting a young leopard while filming in Africa.

THE JOUBERTS MAKE FILMS TO HELP PEOPLE UNDERSTAND WILDLIFE.

“The leopard had been watching us from her tree as Dereck worked on his laptop in our car. Suddenly she left the tree, came up to the vehicle and climbed onto the passenger seat. Then, amazingly, she raised a paw, put it on the keyboard of Dereck’s computer and looked him in the face. This was a very touching moment, but we knew it was inappropriate behaviour for her, especially if she did it with tourists. So we gently encouraged her to leave the vehicle by turning on the heater, which produced a sound similar to the growl of disapproval a mother leopard might make.”

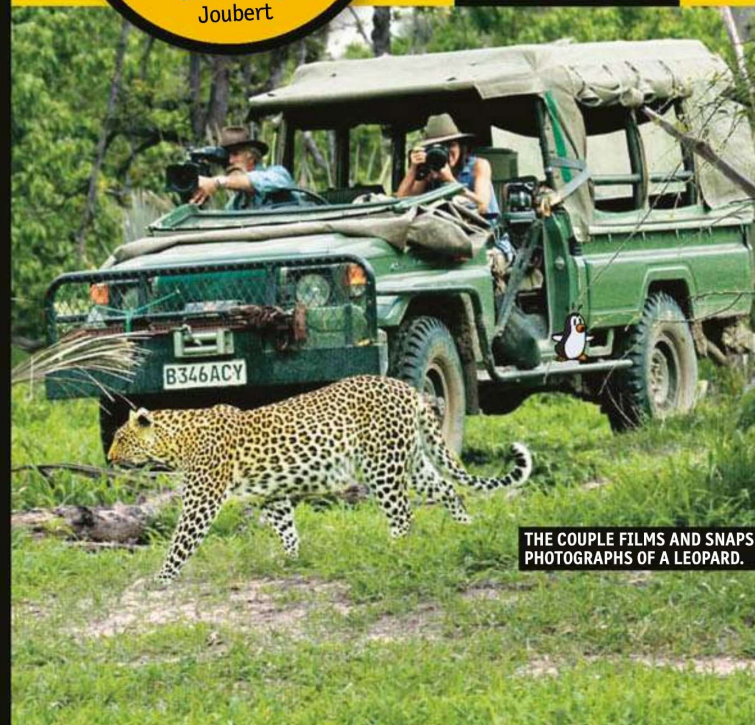
WANT TO BE A WILDLIFE FILMMAKER?

STUDY: Biology and psychology so you can understand animal behaviour better

WATCH: *Living With Big Cats*

READ: *Eye of the Leopard* by Dereck and Beverly Joubert

“The goal is to see the animals behaving naturally. You may have to watch for a long time.”



THE COUPLE FILMS AND SNAPS PHOTOGRAPHS OF A LEOPARD.



ENRIC SALA SEES COOL CREATURES SUCH AS SEA TURTLES AND SHARKS ON HIS DIVES.

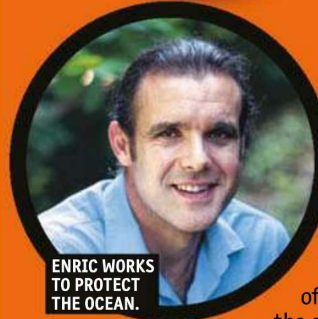
WANT TO BE AN OCEAN ECOLOGIST?

STUDY: Marine biology, environmental studies

WATCH: Any film with Jacques Cousteau

READ: *Citizens of the Sea* by Nancy Knowlton

“Find what makes you happy and go after it. And spend as much time as possible in nature.”



ENRIC WORKS TO PROTECT THE OCEAN.

THE OCEAN ECOLOGIST

Enric Sala studies bodies of water around the world looking for ways to conserve our oceans. He talks about swimming with sharks near Costa Rica.

“We were scuba diving in the waters off Cocos Island. When we reached the edge of an underwater cliff, we stopped to look around. Everything was calm. Suddenly a school of about 200 hammerhead sharks rounded the corner! The creatures glided around us, making a whoosh sound. These fish aren’t aggressive toward humans unless they feel threatened. So we kept still and just gazed at them. Moments like these make me realise how lucky I am – and how important our oceans are.”

HORSE

A starving horse, lost in the desert, finds a safe new home.

BY SCOTT ELDER

The exhausted horse can barely walk, but the drug smugglers force it further into the harsh desert. After overloading the animal with illegal drugs, they're sneaking across the border from Mexico into a remote part of Arizona, America. Nearly 180 kilograms of drugs were carelessly roped onto the horse without any padding. The ropes across his bare back rub through his hair and cut into his skin.

TO THE RESCUE

An off-road 4x4 appears, kicking up dust from a dirt road. It's the US Border Patrol. The smugglers leave the horse as they run to hide. The blond horse, called a palomino, may be free of the smugglers, but not their heavy cargo. Exhausted, sick and starving, the horse cannot survive for long.

Border patrol officers spot the palomino and approach him. They cut the ropes and free him from his burden. Only then do they

see the extent of his injuries. They call Karen Pomroy of Equine Voices Rescue & Sanctuary. The group rehabilitates and cares for injured and unwanted horses, including those abandoned by smugglers.

FINDING KINDNESS

Up to a hundred horses are abandoned by drug smugglers along the border every year – many of the animals are found dead.

"The smugglers usually don't even feed these horses. They don't care about the animals at all," Karen says. She gathers some hay and drives to the holding pen where the palomino is being kept, accompanied by filmmaker and horse lover Victory Tischler-Blue. "The horse was so thin and his back so raw that I was surprised we couldn't see his backbone," Karen says. Even more concerning are the infected gashes on the horse's legs and his

obvious limp. Severely underweight, he hungrily devours the hay. When the women gently approach the horse, he trots away. "He had a look of fear in his eyes," Karen says. "But I just know we could help him." Victory picks a name for the palomino: Sundance.

Karen drives Sundance to the sanctuary's ranch. When he steps off the trailer, the sanctuary's 48 other rescued horses gallop over to whinny hellos. Sundance replies and seems eager to make new horse friends. But he remains skittish around humans.

SPECIAL TREATMENT

The volunteers at Equine Voices hose Sundance down every day and give him antibiotics to help his wounds heal. He has a special diet that includes beet pulp and rice bran, both good for putting weight on horses. Soon the swelling in his legs goes down and he straightens out his walk.

BRIGHT FUTURE

After five months Sundance's back has healed almost completely and he's gained 130 kilograms. Victory visits the farm regularly and is astounded by Sundance's progress. "When people approach him now, he whinnies as if to say, 'Hey! Hi!' He's responding to gentleness and human kindness."

"He's big and he's sturdy. Once we've done a little bit of training, it won't be hard to find him a good home," Karen says. "He's really beautiful and he looks great now. He's a totally different horse."

The only truly wild horse is the endangered Przewalski's horse. This breed was never domesticated.

There are about 400 different breeds of horses.



Rescue

I'M
LOVING MY
NEW LIFE!

AFTER

Horses
can nap standing
up. But they must
lie down to reach
a deep sleep.

ANIMAL KILLERS



The cool science behind solving wildlife mysteries

BY KRISTIN BAIRD RATTINI AND JANI COETZEE

A stray bullet. A single fingerprint. DNA. Like detectives, scientists examine the evidence left behind at crime scenes to help solve mysteries. But the scientists working at the National Fish and Wildlife Service's (FWS) Forensics Laboratory in Oregon, America, and the Veterinary Genetics Laboratory in Pretoria are different: they use cutting-edge technology to help solve crimes against animals. They're a bit like CSI for wildlife. Their detective work helps the police to catch crooks who kill animals – and make others think twice about crimes against nature.

THE VICTIMS: ELK

THE CRIME SCENE: COLORADO, AMERICA

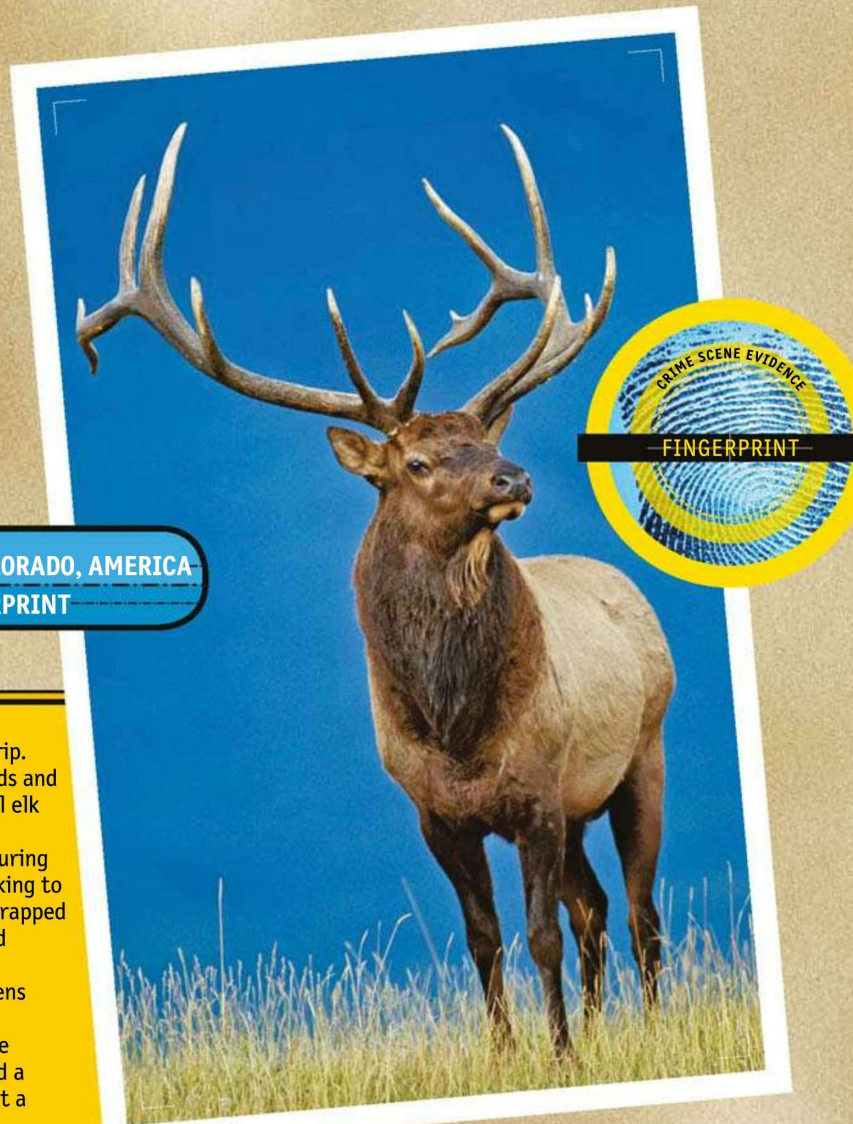
THE EVIDENCE: FINGERPRINT

STICKY FINGERS

To passers-by it seemed the man was enjoying a camping trip. But he was illegally sneaking into reserved hunting grounds and using a gun instead of the permitted bow and arrow to kill elk for their prized antlers.

The hunter couldn't take the large antler racks home during hunting season; there were too many game wardens checking to make sure hunters killed their game legally. Instead, he wrapped the racks in duct tape and hid them in tree branches. He'd return for them after hunting season.

But the suspect left something else behind. After wardens found one of the racks, FWS lab technicians discovered a fingerprint on the duct tape. No two people have the same fingerprints. The scientists searched a database and found a match for the suspect's print. They could confidently point a finger at the hunter, who pleaded guilty and went to jail.



STOCKBYTE / GETTY IMAGES (HANDCUFFS, MICROSCOPE); © MARK RAYCROFT / MINDEN PICTURES (ELK); DAVID MCGLYNN / TAXI / GETTY IMAGES (FINGERPRINT); SIEDE PREIS / GETTY IMAGES (BULLET); © THEO ALLOFS / MINDEN PICTURES (TIGER); © SXC.HU (RHINOS); © PURESTOCK / GETTY IMAGES (DNA)

CRIME SCENE EVIDENCE



BULLET

THE VICTIMS: TIGERS

THE CRIME SCENE: ILLINOIS, AMERICA

THE EVIDENCE: BULLET



SMOKING GUN

The truck rolled past the razor-wire fence and into an abandoned warehouse. It was pulling a horse trailer, but the animals inside were tigers bought from roadside zoos.

Two men pointed guns and shot the endangered tigers, hoping to sell the hides, skulls and meat. But the suspects did a sloppy cleanup job. When an undercover FWS agent bought a full-body tiger skin rug from the ringleader, she found a bullet in the tiger's skull.

A gun leaves a telltale pattern of nicks and scratches on the bullet it fires. Those marks enable scientists to match a bullet to a particular weapon. At the lab, scientists fired a test round of bullets from the ringleader's gun. Using a microscope, investigators compared the marks from the test round to the bullet they found. They matched. "The scientific evidence really sealed the case," says FWS agent Tim Santel. Now the ringleader is locked up and other tigers have nothing to fear from him.



MICROSCOPE



DNA

THE VICTIMS: RHINOS

THE CRIME SCENE: LIMPOPO, SOUTH AFRICA

THE EVIDENCE: DNA



SMART SCIENCE

A hunter aimed his rifle loaded with darts containing a deadly dose of veterinary tranquilizers. His target: rhinoceros grazing peacefully in a reserve. Shots rang out and two rhinos fell. Days later he checks in to O. R. Tambo International Airport. He tries to skip the sniffer dogs by booking his luggage directly to Vietnam. But the police are using X-ray scanners on the luggage. In his bag they see the shape of six rhino horns, weighing more than 15 kilograms and worth up to R4 million on the black market. The police still didn't have enough evidence to link these horns to the poaching incident – first they had to fit the horn to the skull it came from.

Cindy Harper, head of the Veterinary Genetics Laboratory in Pretoria, believes DNA profiling can solve this case. In her lab they drill into each horn to obtain tissue samples of DNA. This determines the traits of all living things, is unique and chances of another rhino having the same DNA sequence are one in a million. Two of the horns turned out to match the poached rhinos! That was foolproof evidence and a judge sentenced the man to ten years in prison – the first criminal conviction using DNA fingerprinting of rhino horn.

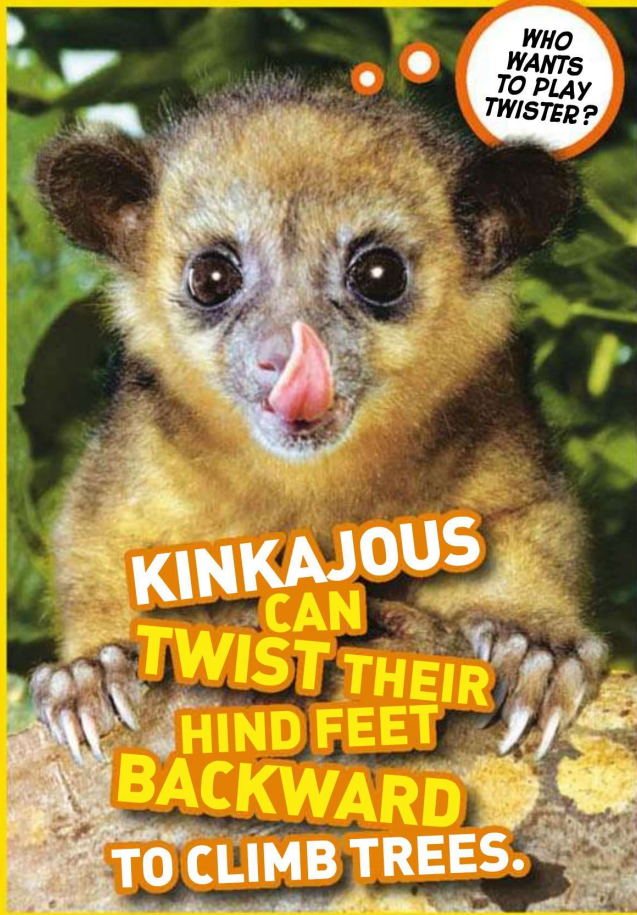
Check out these outrageous facts.



Alligator **teeth** are hollow.


LIGHTNING
CAN MAKE THE
AIR AROUND IT
FIVE TIMES
HOTTER THAN
THE **SUN'S**
SURFACE.

A HOUSE
IN
SOUTH
KOREA
IS DESIGNED
TO LOOK LIKE
A TOILET
BOWL.



WHO
WANTS
TO PLAY
TWISTER?

KINKAJOUS
CAN
TWIST THEIR
HIND FEET
BACKWARD
TO CLIMB TREES.



The
electric chair
was invented
by a
dentist.



Pigeons
have
received
medals
of honour
for
military
service.



A SNAIL CAN
SLEEP FOR
UP TO THREE
YEARS.



ONE
TYPE OF
WILDFLOWER
SMELLS LIKE
CHOCOLATE.



The **sunset**
on **Mars** appears
blue.

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Chameleon



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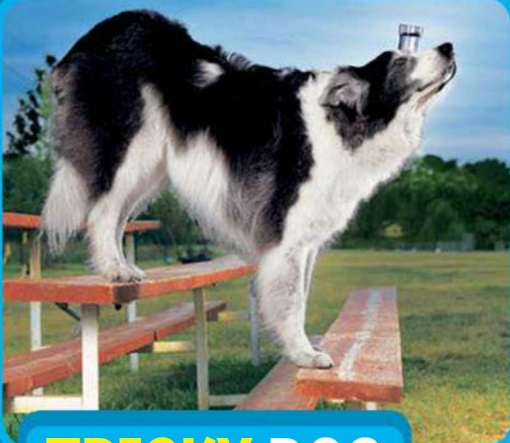
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Guinness World Records

BY MOLLY MARCOT

SUPERLONG NAILS

This is one woman who never bites her nails. Chris "The Duchess" Walton of Las Vegas in America holds the record for the longest fingernails on a woman. If all ten nails were laid end to end, they'd measure over six metres long – about the height of five cows stacked on top of one another. Chris coats her nails with an acrylic gloss to keep them from breaking, then decorates them with cool colours and designs. The whole process takes nearly five hours. She can do everything from driving a car to washing dishes, but avoids sports to protect her nails. Why risk 18 years of hard work?



TRICKY DOG

Talk about taking it one step at a time. Sweet Pea the border collie mix can walk down ten steps while balancing a glass of water on her head. That's the most steps ever for a dog! In fact, Sweet Pea can balance books, pencils and even shoes on her head because she and her owner practise about two hours a day. Think walking down steps with a water glass on your head sounds tough? Sweet Pea holds another record for walking up 17 steps – backward.

GIGANTIC ICE CREAM CONE



Hope you saved room for dessert. The biggest ice cream cone is more than two metres tall. It took seven dessert chefs about 30 hours to create this frozen treat for an event in Italy. Placed inside a custom-made glass case, the cone was covered with 2 000 vanilla cookies. Then five monster scoops of Italian ice cream, called *gelato*, were heaped inside the cone and topped with black cherries and chocolate. Just beware of extreme brain freeze.



THIS SHRIMP ACTS LIKE A LIVE TOOTHBRUSH
AND CLEANS THE MORAY EEL'S MOUTH.

AN ACACIA ANT ATTACKS A VINE GROWING ON ITS ACACIA TREE.

SLOTHS AND MOTHS. SEA SLUGS AND ALGAE. IN NATURE ODD COUPLES LIKE THESE PAIR UP FOR SURVIVAL.

PERFECT PAIRS



BY SUSAN GRAY GOSE

A boxer crab dashes out from under a rock. It's on a mission and has to be quick. Its claws are too small to fight predators. Ahead, sea anemones grow. These animals sting, yet the crab doesn't go around them. It plucks two anemones and holds them in its front claws.

Suddenly a sunset wrasse swims toward the crab. This colourful fish preys on crabs and even wriggles under rocks to find them.

The threatened crab jumps up and down and waves the anemones. It looks like it's trying to box with the wrasse. The wrasse swims away as it doesn't want to tangle with the crab's stinging boxing gloves.

The danger is past but the crab doesn't let go of the anemones. It rubs them across the seafloor so their tentacles mop up bits of food. The crab uses its claws to pick food from the tentacles and the anemones get the leftovers.

The crab only puts the anemones down when it moults and then it keeps them in a safe place.

The crab sheds its shell and grows a new one. As the new shell hardens, the crab picks up the anemones again. On their own, life might be tough but working together, they find food and fight off predators.

GETTING ALONG

In some cases it's clear that both species benefit. Take a moray eel and a cleaner shrimp. The shrimp crawls to an open space and sways its body. It waves its antennae. Moves like that could attract a predator. In fact, a moray eel soon swims up. It opens its mouth wide and flashes its teeth.

The shrimp disappears into the eel's mouth. It's not the eel's dinner, though. The shrimp uses its claws to pick up and eat dead skin and parasites. Then it crawls back out of the moray's mouth. The shrimp gets a meal and the eel gets a cleaning – both benefit.



THIS BOXER CRAB WAVES TWO TINY ANEMONES TO SCARE OFF PREDATORS.



ALGAE GROW IN THE FUR OF THIS SLOTH AND HELP CAMOUFLAGE IT.



LINKED LIVES

All over the planet other odd couples like the crab and anemones pair up for survival. We call this a symbiotic relationship.

Not all of these relationships are the same. If both species benefit, like the moray eel and the cleaner shrimp, it is called mutualism. Another deep sea cleaner is a little fish, the cleaner wrasse. When a big fish swims by, it darts into its mouth and nibbles away until the fish is clean. Other relationships are one-sided – two species work together but only one of them benefits. Then there's parasitism. A parasite often harms or even kills its partner to survive.

These relationships can be complicated. The crab and anemones are a good example. The anemones help protect the crab and catch food. That's good for the crab. The anemones get the crab's leftovers, so neither goes hungry. Yet the crab also keeps the anemones captive. They might not get enough food to thrive. Over time, they might turn pale and shrink.

ANT PLANT

Sometimes animals pair up with plants. A kind of ant and an acacia tree are a good example. Their symbiotic relationship is so close that the ants are called acacia ants.

These ants crawl all over an acacia tree and slurp its nectar. They lay eggs inside its hollow thorns and feed the tips of the tree's leaves to their larvae. The ants don't need to go anywhere else for food or shelter.

None of this hurts the tree. It has enough nectar, seeds and space for the ants. Yet the tree faces danger from other animals that want to eat its leaves. It even faces danger from other plants.

The ants defend the acacia tree like warriors. If a vine wraps itself around a branch, the ants bite through it. If a grasshopper lands on a branch looking for leaves to eat, the ants sting it until it hops away.

If an elephant tries to pluck the tree's leaves, the ants swarm up the elephant's trunk. They crawl inside it and sting the tender skin. Some animals might get a nibble, but it's not enough to hurt the tree.



ALGAE LIVE INSIDE THIS SEA SLUG.



SEA FARM

A blue dragon sea slug doesn't look for a plant or animal partner. It pairs up with algae to survive. First the sea slug eats the algae. It doesn't digest the algae, but stores them inside its body. Now the algae have a new home.

During the day the sea slug crawls into shallow water. The sun beats down on it and through its skin. Inside its body the algae turn sunlight into food. That's how the algae get the energy to



A CLEANER WRASSE CLEANS THE MOUTH OF A SWEETLIPS FISH.

survive and grow.

The algae make enough food to give the blue dragon energy, too. It needs this help. A sea slug is slow and when it's hungry, it can't always quickly find sponges or sea anemones to eat. Its algae farm keeps the blue dragon alive between meals.

SLOTHS AND MOTHS

Deep in a rain forest another kind of animal pairs up with algae. There a sloth

hangs upside down from a thin branch high in the trees. It barely budes even when it rains.

The sloth's damp, shaggy fur makes a great home for algae. They grow in grooves in the sloth's hairs and turn it green. The colour camouflages the sloth so it can hide from predators in the leafy trees.

Moths live in the sloth's fur too. These sloth moths hide from predators and eat the algae. They also lay their eggs in

the sloth's dung. At every stage of their lives, these moths depend on the sloths.

The moths don't help the sloth. They also don't hurt it. This kind of relationship is called commensalism.

STUCK TOGETHER

Deep in the sea is another example of commensalism. Hundreds of bumpy barnacles cling to the skin of a humpback whale, who doesn't even notice them. The barnacles don't hurt

the whale or slow it down. But sticking to the whale helps them survive.

Like shrimps, barnacles are crustaceans. They're so small that it's hard for them to find enough food. Bigger animals gobble the food up first. That's where the whale comes in.

Once a year, whales swim to shallow waters to give birth. The waters are full of barnacle larvae. These barnacle babies swim up to a whale and tap their antennae on its skin. When they find a free spot on the whale, they glue themselves there headfirst and grow a hard shell to live in. They can live on the whale for more than five years.

Why does a barnacle pick a whale as its host? They eat the same food. They eat plankton, or tiny plants and animals. When a whale swims through plankton, the barnacles stick feathery feet out of openings in their shells. Their feet wave in the water and catch plankton. By riding on a whale, barnacles can find plenty of food.

PECKING ORDER

Like the shrimps and wrasses, oxpeckers make a good cleaning crew. These birds sit on the back of a Cape buffalo. With bright red beaks they peck at its skin. A pair even hops down the buffalo's head. They stick their heads



A PAIR OF OXPECKERS PICK THE NOSE OF A CAPE BUFFALO.

inside its goopy nostrils and go to work.

The birds aren't hurting the buffalo. They're helping it. With each peck they gobble up bugs and dead skin. They clean the buffalo and help it to stay healthy. In return the oxpeckers get all the food they need.

The oxpeckers are good watchdogs, too. From the back of the buffalo they can see all around. When they spot a predator, they caw loudly. That startles the buffalo

and also warns it. It has time to run to a safe place.

For the Cape buffalo an oxpecker is a perfect partner. It helps the animal survive. That's what many of these symbiotic relationships are all about. On its own, a plant or animal or bit of algae may have trouble staying alive. By working together they can help each other find food, shelter and safety. That's why these odd couples make perfect pairs.



A HUMPBACK WHALE CAN BE COVERED BY 454 KILOGRAMS OF BARNACLES.

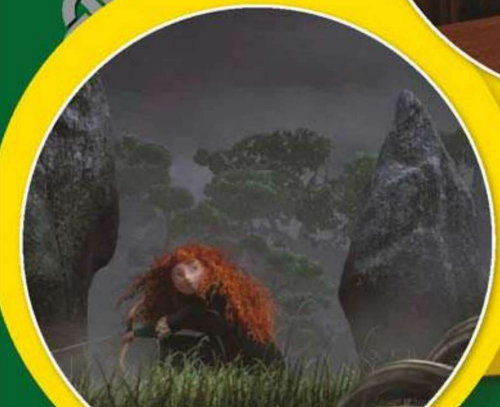
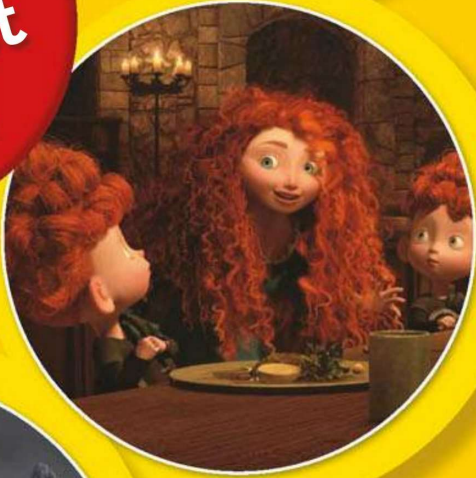
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COMPETITION

BRAVE

FIRST WITH NG KIDS

Merida is an expert archer and daughter of King Fergus and Queen Elinor. Determined to carve her own path in life, Merida rebels against an age-old custom sacred to the lords of the land. Her actions accidentally unleash chaos in the kingdom and when she turns to a witch for help, she is granted an ill-fated wish. Merida is forced to discover the meaning of true bravery in order to undo a beastly curse before it's too late.



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see it first
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The Truth Behind the New Movie

BRAVE

BY DELENÉ VAN DER LUGT

Would you like to spend your day exploring the Scottish Highlands, riding your horse and practising archery? Sounds like fun – and it's just what teen princess Merida wants. Queen Elinor has other plans for her daughter, though. Determined to change her fate, Merida accepts help from a witch and accidentally unleashes a beastly curse on the kingdom. It will take all her courage to clean up her own mess! NG KIDS went behind the scenes of the movie *Brave* to find out how Merida's magical home measures up to the real Scotland.

HIGHLAND FLING

In the movie all the clans of the kingdom gather at the castle to compete in the Highland Games. This time each clan presents the first-born son of a lord to compete for Merida's hand in marriage. These games date back to ancient times and just like in the movie only men could compete. Events like the caber toss (throwing a large wooden pole) and the stone put (similar to shot put) were designed to impress rivals. Chieftains had their followers race to find the fastest man, who would then carry urgent messages during battles. It is said that Baron De Coubertin decided to revive the Olympics after seeing a display of Highland games at the Paris Exhibition of 1889.

CREATING A CASTLE

No Pixar film has had a castle in it, so King Fergus and Queen Elinor's home had to be designed from scratch. At first the team wanted to set DunBroch castle on a loch (lake) in the Highlands. Then they visited Dunnottar Castle, a ruined medieval fortress on a cliff, and were so inspired that they changed the location. Dunnottar Castle was built in the 15th century. Legend has it that William Wallace (Braveheart) set fire to the castle chapel while English soldiers were hiding inside.

DON'T MESS WITH THIS PRINCESS.



ABOVE: THE REAL DUNNOTTAR CASTLE (LEFT); EARLY CONCEPT ART FOR CASTLE DUNBROCH (MIDDLE); THE FINAL ARTWORK FOR MERIDA'S HOME (RIGHT).

**HAIR-RAISING
FACT**

Merida has more than 1 500 individually sculpted, curly red strands that make up about 111 700 hairs. If they were straightened, her hair would be over a metre long and reach the middle of her calf!

**GOBLINS
OR GAS?**

In marshy places found in parts of Scotland a natural phenomenon occurs when swamp and bog gasses seep from the ground. When they come into contact with air they sometimes catch fire. Legend says travellers at night would follow these lights, called will o' the wisps, believing they were fairies. Merida first sees them in the circle of stones. They're blue like a gas flame and lead her into the forest to a witch's cottage.



**STANDING
STONES**

Merida refuses to get married and her mum is furious. They argue and the princess rides off on her horse, Angus. After racing through the woods they end up at a ring of giant stones in a perfect circle. This scene was inspired by Standing Stones of Callanish on a Scottish island. "It felt like the perfect setting for something important to happen," says producer Katherine Sarafian. "The stone circle is on an exposed cliff with the sky behind it. Very striking. On both trips there I struggled to get the artists back on the bus."

CHECK IT OUT

Did you think a kilt, the traditional outfit worn by Scottish men since the 16th century, is just a woolly dress you slip into? Wrong. Even making one with computer graphics, as the team did for *Brave*, is hard. "The kilt is one long piece of fabric," explains simulation supervisor Claudia Chung. "It is folded, tied with a strap, draped and then pinned with a special brooch." Just so they could draw it properly, some of her team members studied videos of people putting on kilts, practised doing it themselves and even wore a few.



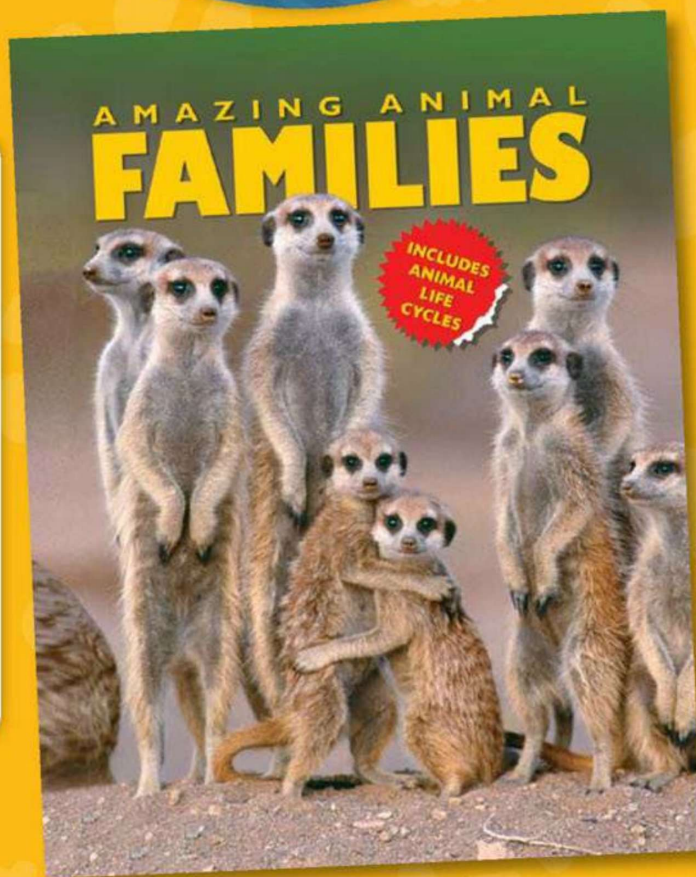
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Fun Stuff

games, laughs and lots to do!



Monster Match

These ten monster diners have inspired the restaurant chefs. Match each of the diners to the spot in the kitchen where their meal is being made.

BONUS: Find 13 forks.

SOLUTION ON PAGE 50

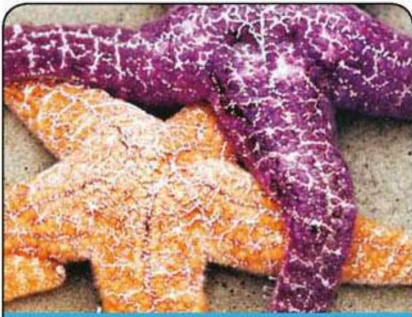


What in the World?

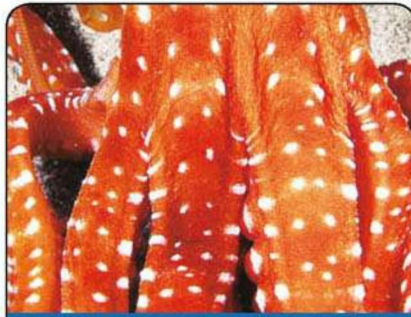
BELOW SEA LEVEL

These photographs show close-up views of underwater creatures. Unscramble the letters to identify each picture.

Bonus: Use the highlighted letters to solve the puzzle below. ANSWERS ON PAGE 50



IFSHRSAT



CSOUP TO



HAEERSOS



INGALHSEF



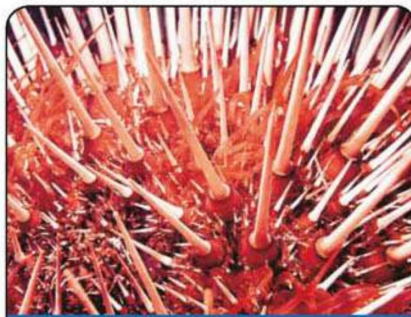
ARNTSYIG



EAS GSUL



LBHWIOFS



AES HIURNC



OSTLREB

HINT: It sounds like a vegetable, but it moves along the ocean floor.

ANSWER: _ _ _ **C** _ _ _ **M** _ _ _

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WILDFIRES BURN MORE THAN TREES
www.vws.co.za



Art Zone



NG KIDS drew pictures of what they want to be when they grow up.

"Dokter Dokter"
Marië van Zyl, 10,
Malmesbury



"Ek as 'n Ingenieur"
Jan-Jan Meyer, 9, Humansdorp

Pet Shop
Ané Leonard, 10,
Hartenbos

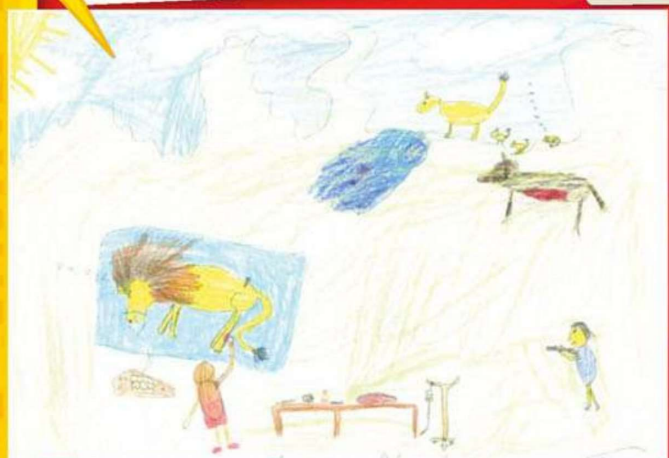
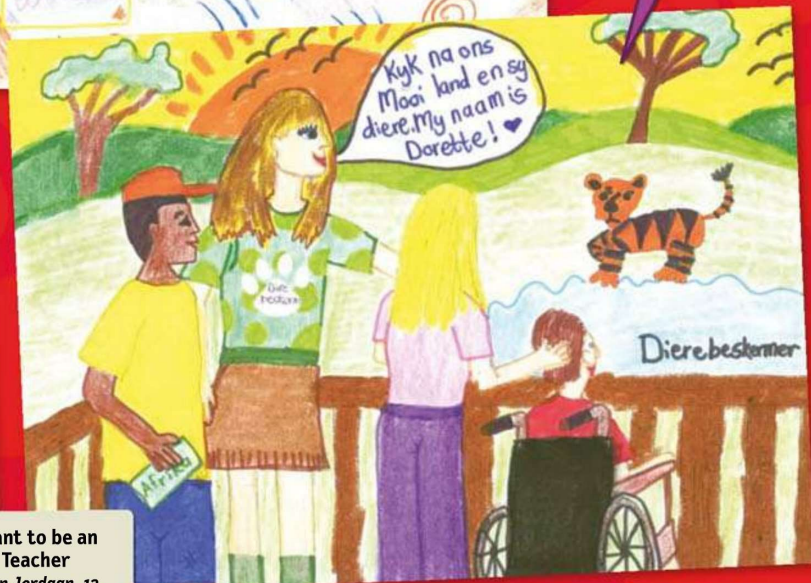
"Dierebeskermer"
Dorette Bester, 12,
Groot Jongensfontein

Hospitaal vir kinders



"Vet van Afrika"
Christél Theron, 11,
Merweville

I want to be an
Art Teacher
Dylan Jordaan, 12,
Queensburgh



DRAW a friendly MONSTER

Send your original drawings to
The Editor at NG KIDS,
PO Box 2271, Cape Town 8000.

Include your name, address, phone number, date of birth, a title for your drawing, a statement that it is your own work and the name of your parent or guardian. Your parent or guardian must sign a release for publication of your illustration. Submissions become the property of the National Geographic Society and all rights are transferred to the National Geographic Society. Submissions cannot be acknowledged or returned. Selection will be at the discretion of NG KIDS.

Funny FILL-IN

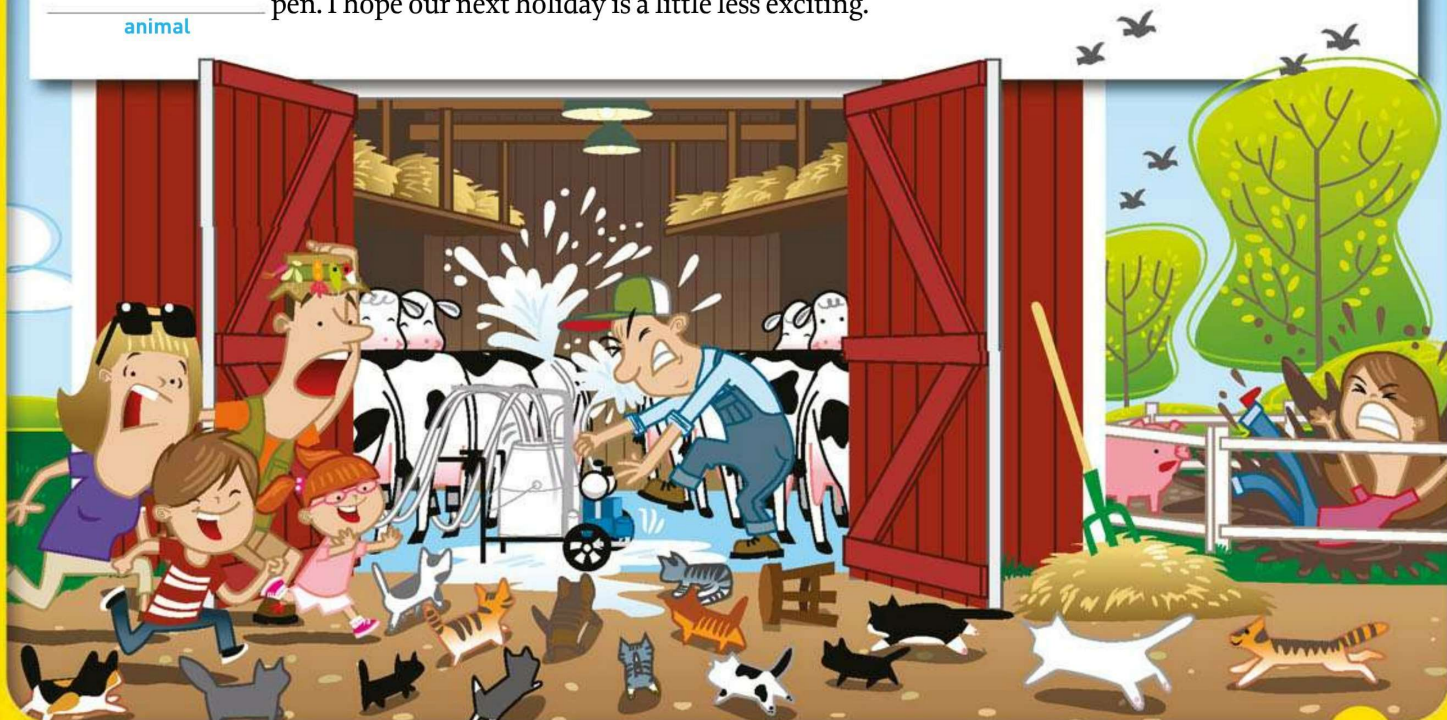
Farm Frenzy

BY MARGARET J. KRAUSS

Ask a friend to give you words to fill in the blanks in this story without showing it to him or her. Then read out loud for a laugh.



At _____ a.m., my family and I piled into the car for our annual camping trip. We were singing along to _____ when we heard a(n) _____. Our car had a flat _____! Soon a bakkie pulled over. "I'm farmer _____. Can I offer you a ride?" the driver asked. That's how we spent the day on a _____ farm. I sat on a(n) _____ next to the farmer to learn to milk a cow. But the cow started _____ my hair. So I tried to run the _____ milk machine instead. As I pulled a lever, my _____ disconnected a tube and _____ started _____ everywhere. I _____ from the machine, right into a(n) _____ pile of _____. A bunch of _____ ran to lap up the spill, so I _____ toward the door. On the way I slipped and fell into the _____ pen. I hope our next holiday is a little less exciting.



STUMP YOUR PARENTS

If your parents can't answer these questions, maybe they should go to school instead of you! ANSWERS ON PAGE 50



- 1** Which statement is false? Two-toed sloths
 A. sleep up to 18 hours a night C. shiver
 B. climb upside down D. eat leaves

- 6** Alfred Nobel, the chemist who founded the Nobel Prize, invented
 A. light bulbs
 B. sleeping bags
 C. the space shuttle
 D. dynamite

- 2** A person who studies trees is a(n)
 A. dendrologist
 B. etymologist
 C. treeologist
 D. geologist

- 7** Match each country to the currency it uses.
 A. Canada 1. metical
 B. United Kingdom 2. euro
 C. Poland 3. dollar
 D. Spain 4. pound
 E. Mozambique 5. zloty



- 8** Which of these wacky festivals are real?
 A. The Lumberjack Festival in Stellenbosch, Western Cape
 B. The Tomato Festival (La Tomatina) in Buñol, Spain
 C. The Rainbow Gathering in Santa Fe, America
 D. All of the above

- 3** The world's largest rodent is the
 A. chipmunk C. capybara
 B. Johannesburg rat D. marmot

- 9** The planet furthest from the sun is
 A. Earth C. Mercury
 B. Neptune D. Saturn



- 4** The first compasses were made in
 A. China C. Peru
 B. Portugal D. Zimbabwe

- 5** Arachibutyrophobia is the fear of
 A. getting peanut butter stuck to the roof of your mouth.

- B. getting stuck in rapids.
 C. bridges.
 D. spiders.



- 10** A group of grasshoppers is called a
 A. cloud
 B. pod
 C. bloat
 D. scrum



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FUN factory



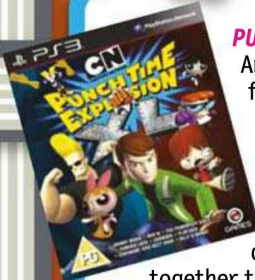
PLAY THIS! ↓

WATCH THIS! ↓

SECRET OF THE WINGS

For Tinker Bell and her fairy friends in Pixie Hollow, the Winter Woods is strictly off limits. But then Tink meets a winter fairy called Periwinkle and decides to find out more about the mysterious place. She travels with Fawn, Iridessa, Rosetta, Silvermist and Vidia into the forest and discovers a magical secret that changes her life forever.

In cinemas from 31 August.



PUNCH TIME EXPLOSION XL PS3

An evil force is corrupting the worlds of all our favourite Cartoon Network characters, so the Powerpuff Girls, Numbuh One, Dexter, Ben and other stars band together to battle all the villains from different dimensions. The adventure kicks off when a man tries to watch his favourite cartoons on his day off and realises everything is completely upside down! He follows the characters as they stand

together, trying to restore the balance by fighting the baddies and travelling from universe to universe.

If you've always dreamt of defeating Vilgax from Ben 10 or Aku from Samurai Jack, now is your chance! Jump over barriers, overcome hazards and of course kick, punch and roll to beat the baddies. Use your standard attacks to get your metre full and then use the superspecial attack – but be careful, every time you get knocked off the screen or stage, you lose a life!

Look out for weapons like wrenches, fly swatters and magic wands – if you grab them before your opponent does, you'll get superpowers.

If you're lucky, characters like Johnny Bravo will appear to lend you a hand. Unlock new characters, costumes and famous clips from the cartoons by finishing levels and defeating enemies.

Up to four players can play, so invite friends over for an extreme standoff in battle mode, or as teammates in story mode.

– Jani Coetzee

WIN A GAME!

You can win one of two copies of **Punch Time Explosion XL**. SMS* "NGK PUNCH" followed by your name, platform, age and address to 33970.

WIN A DVD!

You can win one of two **Disney Hampers**. SMS* "NGK WINGS" followed by your name, age and address to 33970.

HINT:

Unlock Blossom's character by winning 12 matches in Battle Mode or beat the first level of the Powerpuff Girls level in Story Mode.

DID YOU KNOW?

Tinker Bell was first seen in J.M. Barrie's play *Peter Pan* in 1904. She was shown as a flying light shone from the side of the stage.



READ THIS! ↓

OLD AUNTY CLAWS FRANÇOIS BLOEMHOF

Victor isn't looking forward to another boring winter holiday spent in the children's home. But things change when he meets Miss de Ville, a strange woman who lives down the street.

She seems harmless while she's making her delicious milk tarts, but Victor has a strange feeling something isn't right. Soon he finds out what wrong her hands really can do when you get in their firing line. Along with his friends, Jenny and Flute, he will have to act fast to save their school and, for that matter, the world.

– Jani Coetzee

WIN A BOOK!

You can win one copy of **Old Aunty Claws**. SMS* "NGK CLAWS" followed by your name, age and address to 33970.



Naughty PETS

CAUGHT ON CAMERA

WHAT A GREAT IDEA TO PLAY TUG OF WAR WITH THE CLEAN LAUNDRY!



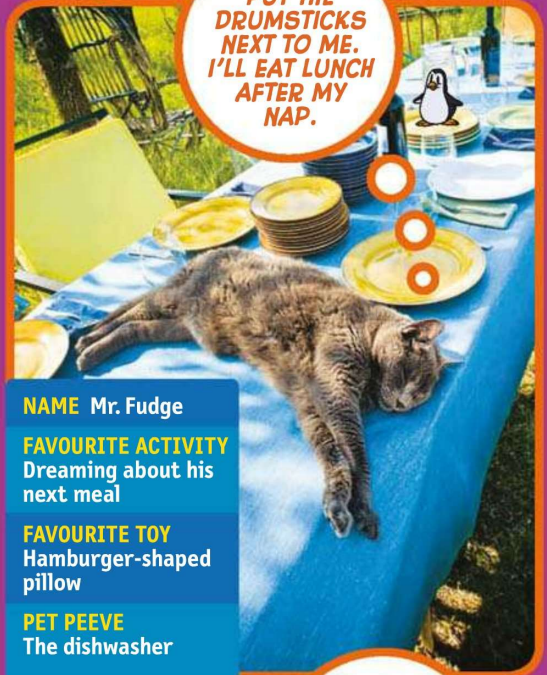
NAMES Sonic and Bojangle

FAVOURITE ACTIVITY
Sock stretching

FAVOURITE TOY
Expensive leather belts

PET PEEVE Dirty clothes

PUT THE DRUMSTICKS NEXT TO ME. I'LL EAT LUNCH AFTER MY NAP.



NAME Mr. Fudge

FAVOURITE ACTIVITY
Dreaming about his next meal

FAVOURITE TOY
Hamburger-shaped pillow

PET PEEVE
The dishwasher

WHAT DO YOU MEAN THIS ISN'T MY LITTER BOX?



NAME Rosie

FAVOURITE ACTIVITY
Pretending she's a flower

FAVOURITE TOY
Potting soil to dig in

PET PEEVE Being watered

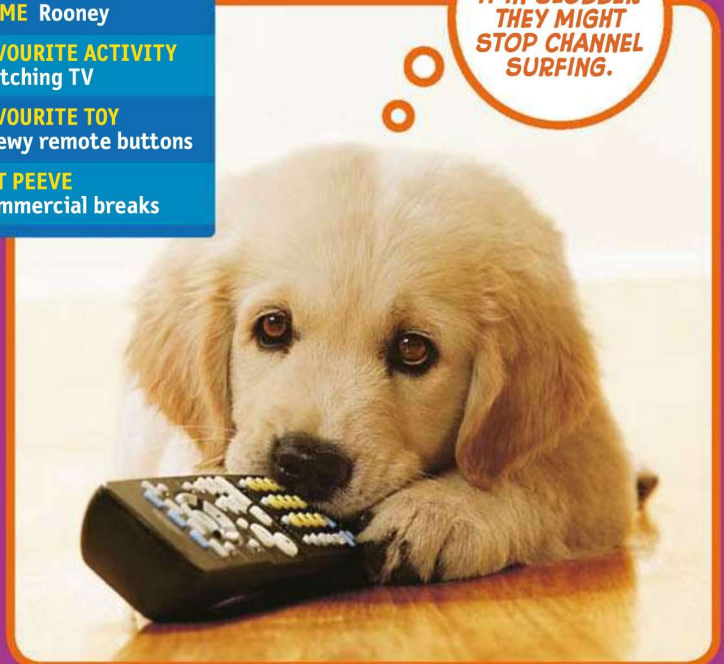
NAME Rooney

FAVOURITE ACTIVITY
Watching TV

FAVOURITE TOY
Chewy remote buttons

PET PEEVE
Commercial breaks

IF I COVER IT IN SLOBBER THEY MIGHT STOP CHANNEL SURFING.



I SORTED OUT ALL THE JUNK MAIL FOR YOU.



NAME Shaggy
FAVOURITE ACTIVITY Waiting for the postman
FAVOURITE TOY Bubble wrap
PET PEEVE E-mail

HE CALLS THIS A TRICK? MY HAIR BALLS ARE MORE EXCITING.



NAMES Hags and his bird friend, Lambert
FAVOURITE ACTIVITY Batting at Lambert's cage until he flies out
FAVOURITE TOY Feather wand
PET PEEVE The same old trick

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The competition opens on 20 July 2012 and closes at 10 a.m. on 26 July 2012. Tickets will be awarded on a first-come-first-served basis. Winners will be notified immediately. The prize cannot be redeemed for cash or exchanged for another movie. SMSs cost R1,50 each and free SMSs do not apply. Please note: only four tickets per family. There are 260 tickets available in Johannesburg, 200 in Cape Town and 200 in Richards Bay. Staff of Media24 (Ltd) and their immediate family, sponsors and their advertising agencies may not enter. The entrant accepts that entry to the competition does not constitute a contract of any form of legal commitment between the entrant and NG KIDS. NG KIDS shall not assume liability for any ambiguity, error, oversight or omission whether negligent or otherwise which may be committed by an employee of NG KIDS, their agents or associates in respect of this competition. Participants and winners of this competition indemnify and hold National Geographic KIDS, Media24 (Ltd) and the sponsor harmless against any liability, claim, damage or loss that may result from participating or winning these prizes.

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Teen Guard Brain Fuel Hampers

Addur Rahman, Cwango Mngomezulu Tshandu, Inga Smit, Estie Kruger, Kathleen Dames, Reihaan Ahmed, Maryka van Bekkun, Mark Chirah, Monique Swarts, Mushfitu Lotters

Mother's Day Competition Winners

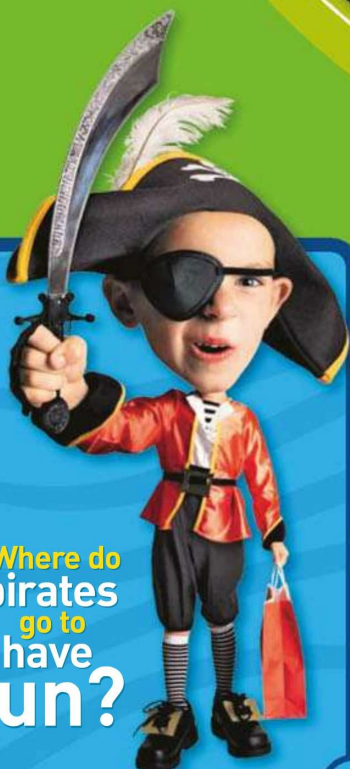
Alpine Heath Resort, KZN – Adriaan van Heerden
 The Square Boutique Hotel & Spa, KZN – Cayla Paula
 Greenway Woods Resort, Mpumalanga – Lara Schultz
 Le Franschoek Hotel & Spa, Western Cape – Emma Smith

Just Joking



**KNOCK,
KNOCK.**

Who's there?
Hawaii.
Hawaii who?
I'm great. Hawaii you?



Q Where do
pirates
go to
have
fun?

The arrr-cade.

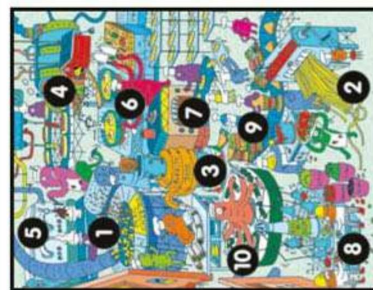
A

KATHRYN:
You said this
cat was good
for mice, but
he doesn't go
near them.
EVA:
Well, isn't
that good for
the mice?



Answers

"What in the World?" (page 42):
Top row: starfish, octopus, seahorse.
Middle row: angelfish, stingray, sea slug.
Bottom row: blowfish, sea urchin, lobster.
Bonus: sea cucumber.



"Monster Match" (page 40):

You must be joking...



Q What do
apes
like to eat
with **milk**?

Chocolate chimp cookies.

A

WINTER FUN

activity pack



Winter FUN activity Book

8 FREE GIFTS INSIDE!

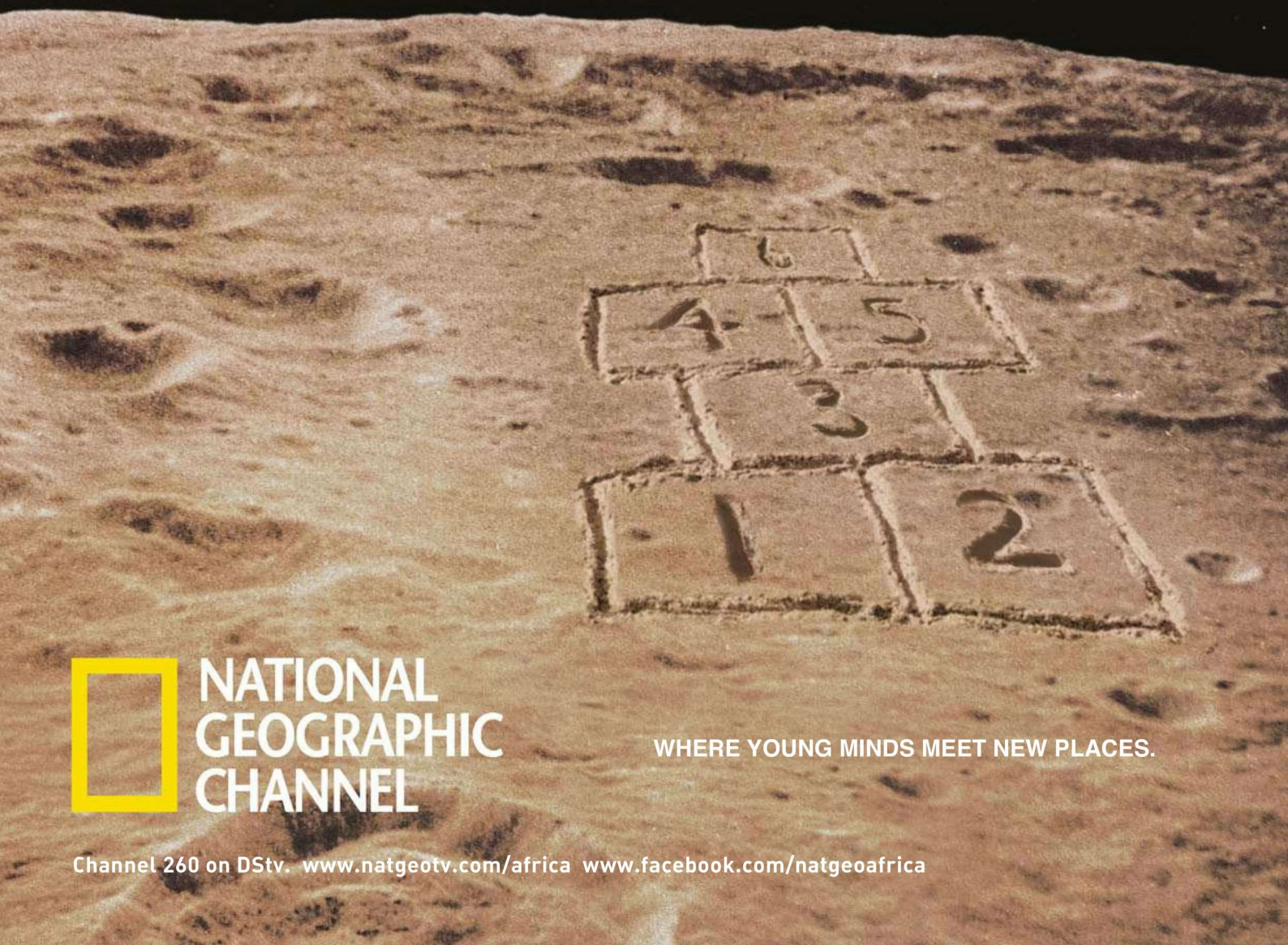


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